INEDGE POWER

Inedge Power

Powering the Future with Sustainability

2025

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Company Profile

Inedge Power

2024 Established

Culture

Vision: To be the world's leading provider of smart energy solutions

Mission: Powering the Future with Sustainability

Core Value: " 4C" Cutting-edge Innovation | Customer Obsession | Cornerstone Safety | Collaborative Green Future

Office

Shenzhen、Hainan、Jiangsu、Europe

Innovation as Our Edge, Customer at the Core, Safety as the Foundation, Open Collaboration, Shared Success, Green Innov

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Competitive Advantage

Stable and reliable

×

Safe

×

AI trading

1 Cross-disciplinary Team

- **Expertise in Power, AI and IoT**

2 Deep Understanding of Electricity Trading

- *In-depth Market Knowledge*
- *Enhanced Value*
- *Smart Decision-making*

3 Profit-Driven AI Energy Management

- **AI-Powered Profitability**
- **Intelligent Energy Management**
- **Multi-market portfolio strategy benefits**
- **Self Adaptive global markets**

4 Agile Service Network

- **Global Reach**
- **Europe Local Support**
- **End-to-End Services**
- **Full Life cycle Support**
- **Customized Approach**

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The Whole Chain Value Creation

Hardware

- **Modularized BESS cabinets and container**
- Flexibly match versatile application and demand

Software

- **Smart BMS/PCS/EMS/OSS**--precisely control charging and discharging and enhance system efficiency and safety
- **Integrates VPP interfaces and AI engines** for power trading operations.

Service

- **Technical Consultant**
  Full lifecycle IRR simulation, providing clients with precise decision-making support.
- **Localized Service Team -**Full lifecycle safety insurance
- **Electricity trading operations**

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Team Strengths

10+ Years of Expertise

- The team have over 10 years experience in energy storage, with deep understanding of global market standards and industry best practices.

AI-Powered Innovation

- AI algorithm experts integrate AI with energy storage, driving industry development and innovation.

Rich Practical Experience

- Developed a wide range of products, including air-cooled and liquid-cooled systems for large-scale and commercial storage.
- Successfully delivered projects at the GWh level, with strong risk mitigation capabilities.

End-to-End Solutions

- Comprehensive team covering product design, planning, system integration, electrical engineering, testing, project delivery, pre-sales, and after-sales support.
- Offers rapid, integrated solutions to meet diverse customer needs.

Advanced Management Philosophy

- Practice IPD (Integrated Product Development) and LTC (Lead-to-Customer) methodologies, prioritizing quality and customer satisfaction to ensure project success.

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Technology advantages

AI + Energy Storage: Redefining Energy Efficiency

Multi-layer Safety Design

•Comprehensive safety design covering cells, packs, and the whole system.
•Robust electrical and fire protection.
•Multi-level fault self-healing system.
•Thermal runaway probability reduced to 0.001%.
•Integration of software and hardware to create an extremely safe energy storage system.

Energy Management System

•Features Virtual Power Plant (VPP), overseas O&M platform, and integrated energy management platform.
•Provides efficient energy and O&M management services to enhance the value of energy storage.

Visualized Lifecycle Management

•Based on data analysis of energy storage operations, assess system stability margins and continuously optimize design.
•Provides operational optimization recommendations for project owners and O&M teams.
•Offers full lifecycle quality tracking and analysis, with early warning capabilities for product lifecycle.

AI-Driven Optimization

- Dynamic electricity price prediction accuracy > 90%.
- Adaptive charging and discharging strategy learning, increasing revenue by 15% comparing to traditional solutions.

Standardized Design + Flexible Application

•Standardized energy storage system design for easy validation and enhanced system stability.
•Rapid response to customized customer needs, with customized design completion within 30 days.

Customized Solutions

•Offers customized solutions for various applications, including: Standalone Energy Storage | Shared Energy Storage| Commercial & Industrial Energy Storage| Solar + Storage + Charging | Microgrids| Backup Power |Power Quality Improvement| Distribution Network Energy Storage |Oilfield Microgrid

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Test Platform

Joint Laboratory

with Guangdong Weineng Testing Technology Co., Ltd

Comprehensive Testing & Validation for Energy Storage Systems

Electrical Performance Testing	Environmental Testing	Mechanical Testing
Reliability Testing	Electrical Safety Testing	Safety and Fire Protection Testing

Empowering Energy Storage with Advanced Testing Solutions

Scenario-based Solutions - Deeply Matching Needs, Unleashing Energy Value

Photovoltaic + Energy Storage + Charging (PV-ESC)

- **Pain Points:** Low charging pile utilization, high electricity costs
- **Solution:** Integrated PV, energy storage, and charging pile management
- **Customer Value:** Reduces charging costs by 25%, investment payback period < 4 years

Industrial Parks

- **Pain Points:** Excessive demand charges, unstable power supply
- **Solution:** Energy storage + demand management + VPP frequency regulation
- **Customer Value:** Saves over 18% on annual electricity bills, earns frequency regulation subsidies

Commercial Buildings

- **Pain Points:** High backup power costs, carbon emission pressure
- **Solution:** Energy storage + diesel generator replacement + carbon asset development
- **Customer Value:** Reduces backup power costs by 40%, increases carbon trading revenue

Scenario-based Solutions - Deeply Matching Needs, Unleashing Energy Value

Microgrids

- **Pain Points:** Insufficient reliability of off-grid power supply
- **Solution:** Multi-energy complementary + AI microgrid dispatch
- **Customer Value:** Energy self-sufficiency rate > 85%, zero power outage perception

Public Facilities

- **Pain Points:** Difficulty in meeting low-carbon policy standards
- **Solution:** Energy storage + green electricity aggregation + government subsidy application services
- **Customer Value:** Meets local energy storage requirements, reduces compliance costs

Electricity Trading

- **Pain Points:** Difficulty in capturing benefits from electricity price fluctuations
- **Solution:** VPP aggregation + cross-regional trading + AI strategy
- **Customer Value:** Increases asset return rate by over 30%

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02

Product Category

Utility BESS Serials

Utility Scale
Inedge Vault C5016
5.016MWh

VPP
Participating in Peak Shaving and Frequency Regulation as a Secondary BRP and BSP

OSS (Operations and Maintenance System)
Provides calculation, certification, installation, maintenance, and data management services for energy storage and charging equipment exported to Europe

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Safety design

IEC 62933, EN 50549 compliance, UL9540A

Temperature Management

•Equipped with lithium iron phosphate batteries featuring superior temperature characteristics.
•Structure design for enhanced heat dissipation, fire resistance, and gap discharge, supported by simulation and verification for safety assurance.

Electrical Safety Design

•Comprehensive electrical design protection mechanisms.
•Separation of electrical components and battery storage, with zoned management to reduce electrical safety risks.

Fire Prevention and Control Systems

•Integrated temperature and smoke detection, clean gas, and automatic water fire alarm and extinguishing systems.
•Multi-layer safety assurance with 1 inspection, 2 ventilation, and 3 heat release measures to prevent thermal runaway.

Advanced Safety Measures

•Separation of electrical and battery storage areas, with zoned management to minimize electrical safety hazards.
•Advanced fire safety systems including temperature and smoke detection, clean gas, and automatic water fire alarm and extinguishing systems.

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Inedge Vault C5016

•Intelligent liquid cooling temperature control design for efficient heat dissipation and rapid response;

•High-precision battery capacity detection, State of Charge (SOC) estimation, and State of Health (SOH) assessment;

•Full lifecycle quality tracking and analysis to establish early warning capabilities for product lifecycle

Item	Parameter
Battery Type	LFP 3.2V/314Ah
System Capacity	5.016MWh（20 ft）
Rated C-rate	0.5CP
DC Voltage range	1123~1500Vdc
Fire Suppression	Gas fire suppression + Smart alarm+ Combustible gas detection +Ventilation+ Explosion relief + pack level fire optional + Dry water pipe reserved
DC Efficiency	≥94%@0.5CP
Cooling Method	Intelligent liquid cooled
Temperature Difference	≤3℃
Compliance	GB/T-36276、IEC62619、UL9540、UL9540A、UL1973、UN38.3
Size (L*W*H)	6058*2438*2896
Weight	42T

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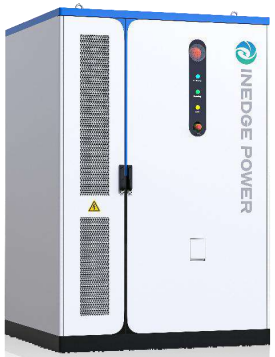
C&I BESS Serials

Inedge String C2612
1050kW/2612kWh



Inedge Pod B261
105kW/261kWh

Inedge Pod P215
100kWh/215kWh

Inedge Pod P100
50kWh/100kWh

Integrated EMS
Provides one-stop source-network-load-storage management and VPP integration services for C&I sectors.

OSS (Operations and Maintenance System)
Warehouse and massive mature user cases in Europe, provide data management and quick installation and maintenance services

PV&Strorage Inverter inbult
Designing for solar panel system, one-stop solution, easy installation. Quickly realize surplus solar energy storage and using

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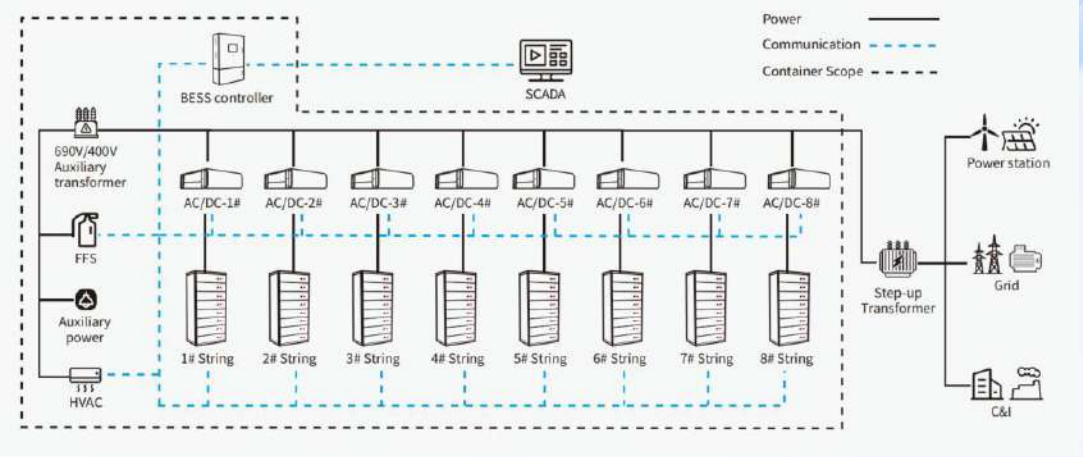
Inedge Pod C2612



- String design, with individual cluster management to eliminate the "short bucket" effect;
- BMS (Battery Management System) active balancing technology to better maintain battery consistency;
- Sperate management of each cluster. Failure of a single cluster does not affect the overall system operation.

Item	Parameter
Rated Voltage	400V,3W+N + PE
Rated Power	1050kW
Battery Module	LFP\314Ah\1P52S*5，Intelligent liquid cooled
Rated Capacity	2612.48kWh
Rated DC Voltage	832V
DC Voltage Range	715~936V
C-rate	0.5CP
RTE	≥88%@0.5CP
Temperature Difference	≤3℃
Fire Suppression	Aerosol（cabinet level）
IP	Cabinet:IP55，PACK:1P67
Size (W*D*H)	6058*2438*2896mm
Weight	≈27T
Code Compliance	GB 36276，IEC 62619, UN38.3, EN IEC 62477-1 EN IEC 61000-6-2/4

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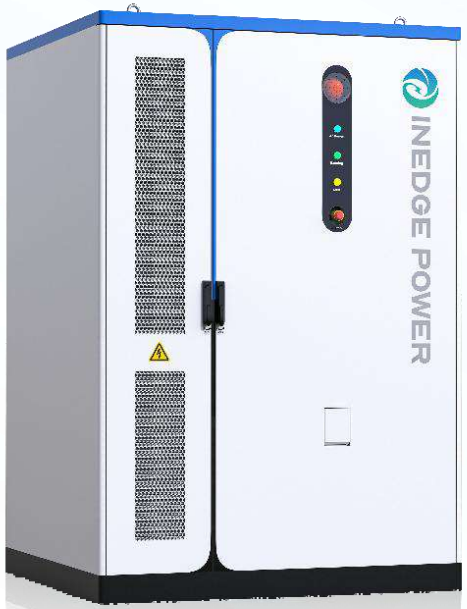
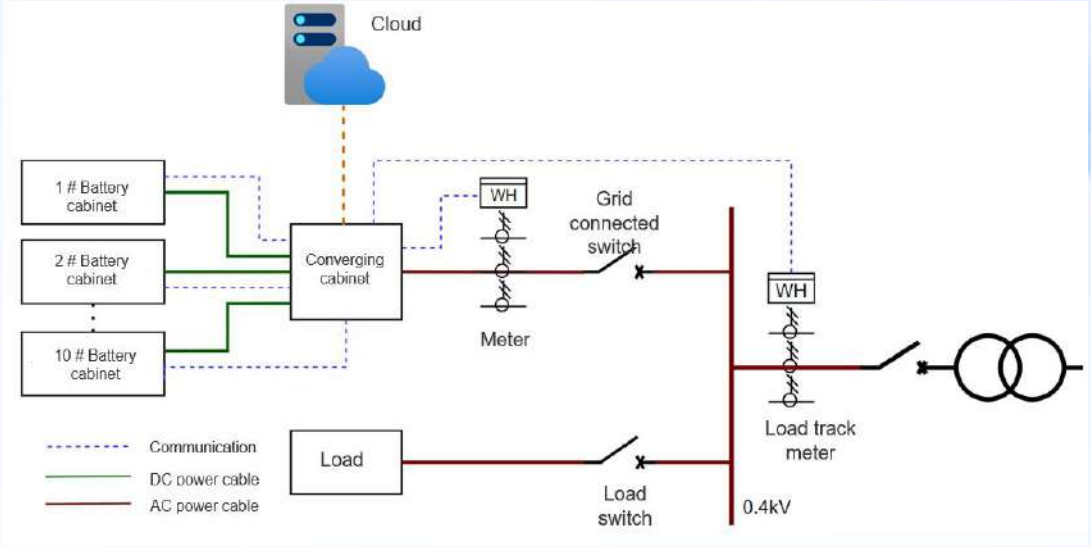
Inedge Pod B261





- Under standard operating conditions, the system lifecycle exceeds 6,000 cycles; (Normal, 25℃)
- High corrosion resistance rating are optional, suitable for various scenarios (C3/C4/C5);
- BMS active balancing technology ensures better battery consistency

Item	Parameter
Rated Voltage	400V,3W+N + PE
Rated Power	105kW
Battery Module	LFP\314Ah\1P52S*5，Intelligent liquid cooled
Rated Capacity	261kWh，supporting max.10 cabinets paralleled
Rated DC Voltage	832V
DC Voltage Range	715~936V
C-rate	0.5CP
RTE	≥88%@0.5CP
Temperature Difference	≤3℃
Fire Suppression	Aerosol（cabinet level）
IP	Cabinet:IP55，PACK:1P67
Size (W*D*H)	1450*1300*2150mm
Weight	≈2.6T
Code Compliance	IEC 62619, UN38.3, EN IEC 62477-1,EN IEC 61000-6-2/4

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Inedge Pod P215

Safety and Reliability

-Dual fire protection system design for multi protection.

-1+1 Redundant design.

Simple and Friendly

Esay installation, pre-installed before delivery.

Backup time with 2-5 hours

Cost-Effective & High Efficiency

-100% DOD, improve return on investment.

Item	Parameter
Rated capacity	215kWh
Normal voltage	AC400V
Cooling method	Intellegant air cooling
Auxiliary electrical parameters	50Hz/60Hz
Fire protection system	S type aerosol
Anti-corrosion level	C3
C-rate	0.5CP
IP Rating	IP54
Operating temperature range	‘-20°C~50°C
Storage temperature	’ -20°C~50°C
Operating humidity range	0~95% RH
Operation condition	Max. 2 charges & 2 discharges per day
System communication interface	Ethernet/RS485/CAN
External communication protocol	Modbus TCP/IEC61850/Modbus RTU
Alttitude	Within 3000m
Dimension (W*D*H)	1740*1100*2330mm
Weight	≈2.4T
Code Compliance	IEC 62619, UN38.3, EN IEC 62477-1,EN IEC 61000-6-2/4

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Inedge Pod P100

•PV&Strorage Inverter inbult

•-Designing for solar panel system.

•-one-stop solution, easy installation.

•-Quickly realize surplus solar energy storage and using

Battery Parameters	
Item	**Parameter**
Rated capacity	102.4kWh
Normal voltage	512V
Operating voltage range	456-576V
Cooling method	Air cooling
C-rate	Max 0.5CP
IP Rating	IP54
Operating temperature range	‘-20°C~50°C
Dimension (W*D*H)	1533mm*1000mm*2150mm
Weight	1430KG
Code Compliance	IEC 62619, UN38.3, EN IEC 62477-1,EN IEC 61000-6-2/4
Inverter Parameters	
DV-PV	
Max. PV Voltage	1000V
MPPT Range/Normal	180V-900V
Max.Input Current/String	36A
Qty of MPPT	4
Max. Input Power/String	75kW
AC-On-Grid	
Rate AC Output Power	50kW
Max. AC Output Power	55kW
Max, AC current	75A
Rated AC Voltage	400V/3L/N/PE
Rated Grid Frequency/Range	50/60Hz±5Hz
AC Current Harmonics	＜3%（100% LOAD)
AC-Off-Grid	
Rated AC Voltage	400V 3L/N/PE
Rated Grid Frequency/Range	50/60Hz
Rated AC Output Power	50kW
Max AC charge/discharge Current	75A
Switch Time	≤10s

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Residential BESS Serials

Wheel-Mounted Model

Wall-Mounted Model

Stackable Model

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Wheel-Mounted Model Serials

EPES-W2				
Rated Voltage	51.2V			
Rated Capacity	280Ah	300Ah	314Ah	345Ah
Rated Energy	14.34kWh	15.36kWh	16.08kWh	17.66kWh
Output Voltage Range	43.2-58.4V			
Charge Voltage	57.6-58.4V			
Cut-off Voltage	43.2V			
Max. Charge Current	150A			
Dimension L*H*Y(mm)	825*415*235			
Weight(kg)	110	112	118	127
Humidity	5%~95% Relative humidity			
Charge Temperature	0°C~50°C			
Discharge Temperature	‘-20°C~60°C			
Weight	‘-10°C~30°C			
Cycle Life	＞6000 times(0.2C, @25°C， 80%DOD)			
Design Life	＞10years			
Operating mode	Touch Screen			

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Wall-Mounted Model Serials

EPES-WM4				
Rated Voltage	25.6V		51.2V	
Rated Capacity	100Ah	200Ah	100Ah	200Ah
Rated Energy	2.56kWh	5.12kWh	5.12kWh	10.24kWh
Output Voltage Range	21.6-29.2V		43.2-58.4V	
Charge Voltage	28.8-29.2V		57.6-58.4V	
Cut-off Voltage	21.6V		43.2V	
Max. Charge Current	100A		100A	
Dimension L*H*Y(mm)	434*384*142	650*384*142	650*384*142	680*412*231
Weight(kg)	25	48	48	86
Humidity	5%~95% Relative humidity			
Charge Temperature	0℃~50℃			
Discharge Temperature	‘-20℃~60℃			
Weight	‘-10℃~30℃			
Cycle Life	＞6000 times(0.2C, @25℃， 80%DOD)			
Design Life	＞10years			
Operating mode	Touch Screen			

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Stackable Model Serials

>>>>Features

- •Pure sine wave solar inverter (on/off grid)
- •Output power factor 1.0
- •WIFI&GPRS available for IOS and Andriod
- •One key restoration to factory settings
- •Built-in Lithium battery automatic activation
- •Integrated design
- •Built-in anti-dust kit for harsh environment
- •Smart battery charge design to optimize battery life

EPES-VMO2	
PV(DC Input)	
Recommended Max.PV Input Power	6000W
Max.Input Voltage	500V
MPPT Operating voltage range	85-450V(@75V startpu)
Number of MPPT	1
Max. Number of Input String/MPPT	1
Max. Input Current/MMPT	27A
Max Short-circuit current/MPPT	37A
Grid (AC Input)	
Max Output Power	6000W
Max Output Current	50A
Rated Grid voltage	220/230/240V(L.N.PE)
Rated Grid frequency	50/60Hz
Acceptable range	170~280Vac(for UPS) 90~280 Vac(for home application)
Battery Parameters	
Battery voltage range	40~60Vdc
Battery capacity	10.24kWh
Rated Battery Voltage	48Vdc.51.2Vdc
Max charge/discharge current	120A/130A
BMS Commucation Mode	Software version
General Parameters	
Peak efficiency	98%
Max. MPPT efficiency	99.90%
Operating temperature range	‘-10°C~50°C
Rated Humidity range	10%-95%
Max operating altitude	＞2000m derating
Standby self-consumption	＜10W
Cooling mode	Fan cooling
Dimension D*W*H	450*450*515(mm)
Weight	118kg

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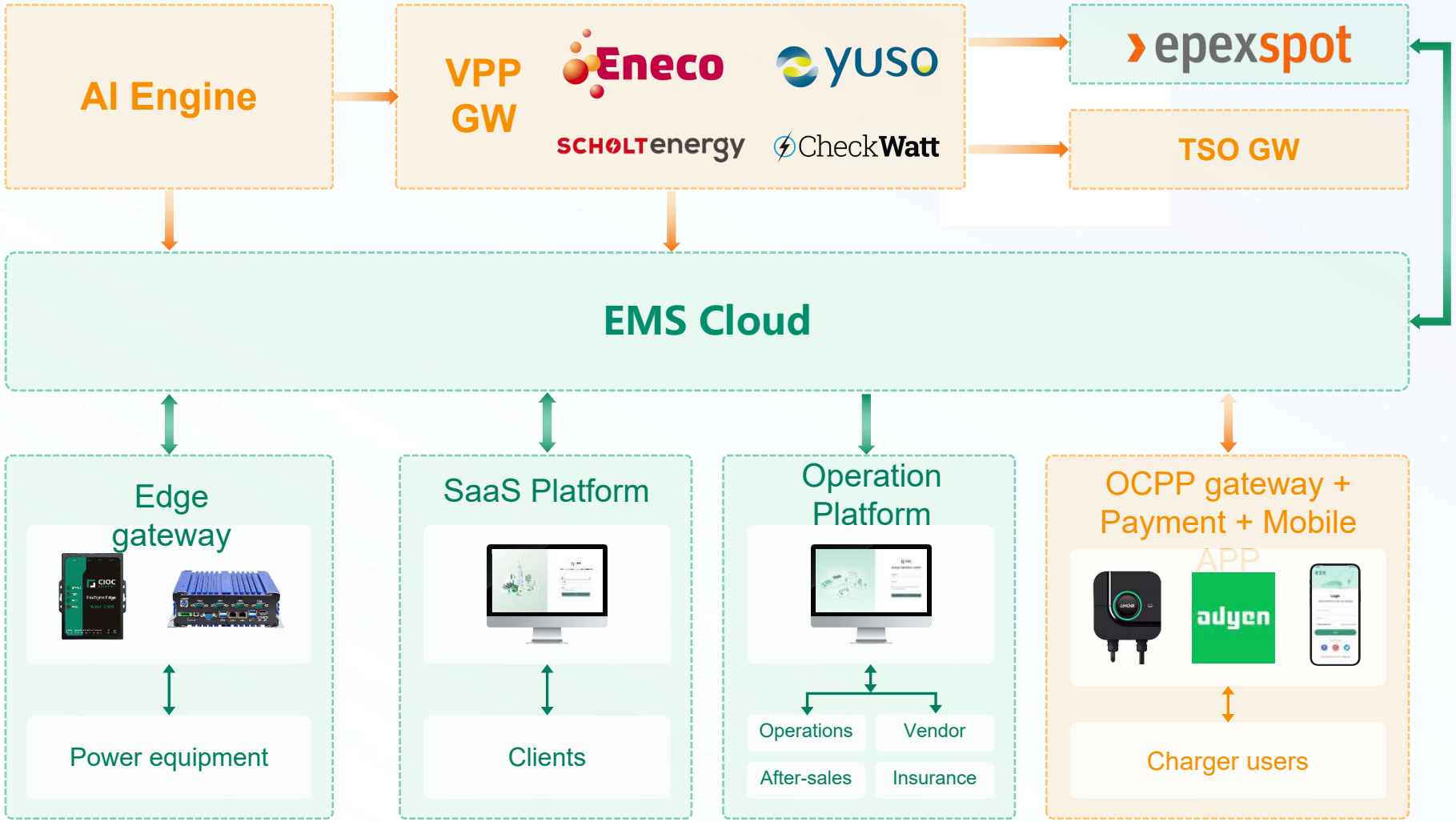
Energy Management System



Basic features:

- EMS Cloud
- Edge gateway
- EMS SaaS Platform

Advanced features:

- EMS operation platform
- AI Strategy
- VPP electricity trading
- Charging stations with accompanying payment-enabled apps

Unlock the full potential of our product with our advanced features.

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Cloud Platform

Product Overview

•Cloud platform for calculating user benefits, maintainability, management, and data mining of massive battery information.
•Analyzing battery system data to enhance the safety and stability of system operations.

Product Features

•Advanced application algorithms, utilizing big data mining and visualization technologies to provide intelligent operation and maintenance for energy storage stations.
•Customizable development with comprehensive simulation capabilities.

Product Functions

•Data collection, visualization, integrated operation and maintenance management.
•Remote operation strategy control, advanced application algorithms, user benefit statistics.
•Multi-level access control, system information encryption to meet

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THANKS